

# 2016 Peer-Reviewed Publications

Resulting from AKC Canine Health Foundation research grants



CHF Grant ID	APA Citation	Institution; Principal Investigator
02083-A	Crawford, E. C., Singh, A., Gibson, T. W. G., & Weese, J. S. (2016). Biofilm-Associated Gene Expression in <i>Staphylococcus pseudintermedius</i> on a Variety of Implant Materials: Biofilm Gene Expression on Implant Surfaces. <i>Veterinary Surgery</i> , 45(4), 499–506. <a href="https://doi.org/10.1111/vsu.12471">https://doi.org/10.1111/vsu.12471</a>	University of Guelph; Singh
01856-A	Duan, W., & Lopez, M. J. (2016). Effects of Cryopreservation on Canine Multipotent Stromal Cells from Subcutaneous and Infrapatellar Adipose Tissue. <i>Stem Cell Reviews and Reports</i> , 12(2), 257–268. <a href="https://doi.org/10.1007/s12015-015-9634-4">https://doi.org/10.1007/s12015-015-9634-4</a>	Louisiana State University; Lopez
02241	Exum, N. G., Olórtogui, M. P., Yori, P. P., Davis, M. F., Heaney, C. D., Kosek, M., & Schwab, K. J. (2016). Floors and Toilets: Association of Floors and Sanitation Practices with Fecal Contamination in Peruvian Amazon Peri-Urban Households. <i>Environmental Science &amp; Technology</i> , 50(14), 7373–7381. <a href="https://doi.org/10.1021/acs.est.6b01283">https://doi.org/10.1021/acs.est.6b01283</a>	Johns Hopkins University; Davis
01985	Faulks, M., Kuit, T. A., Sophocleous, R. A., Curtis, B. L., Curtis, S. J., Jurak, L. M., & Sluyter, R. (2016). P2X7 receptor activation causes phosphatidylserine exposure in canine erythrocytes. <i>World Journal of Hematology</i> , 5(4), 88. <a href="https://doi.org/10.5315/wjh.v5.i4.88">https://doi.org/10.5315/wjh.v5.i4.88</a>	University of Wollongong; Sluyter
2015 Clinician-Scientist Fellowship Program	Friedenberg, S. G., & Meurs, K. M. (2016). Genotype imputation in the domestic dog. <i>Mammalian Genome</i> , 27(9–10), 485–494. <a href="https://doi.org/10.1007/s00335-016-9636-9">https://doi.org/10.1007/s00335-016-9636-9</a>	North Carolina State University; Friedenberg
2015 Clinician-Scientist Fellowship Program	Friedenberg, Steven G., Meurs, K. M., & Mackay, T. F. C. (2016). Evaluation of artificial selection in Standard Poodles using whole-genome sequencing. <i>Mammalian Genome</i> , 27(11–12), 599–609. <a href="https://doi.org/10.1007/s00335-016-9660-9">https://doi.org/10.1007/s00335-016-9660-9</a>	North Carolina State University; Friedenberg
02118-A	Gabriel, C., Becher-Deichsel, A., Hlavaty, J., Mair, G., & Walter, I. (2016). The physiological expression of scavenger receptor SR-B1 in canine endometrial and placental epithelial cells and its potential involvement in pathogenesis of pyometra. <i>Theriogenology</i> , 85(9), 1599-1609.e2. <a href="https://doi.org/10.1016/j.theriogenology.2016.01.021">https://doi.org/10.1016/j.theriogenology.2016.01.021</a>	University of Veterinary Medicine of Vienna; Bartel

01925-A	Grimes, J. A., Prasad, N., Levy, S., Cattley, R., Lindley, S., Boothe, H. W., ... Smith, B. F. (2016). A comparison of microRNA expression profiles from splenic hemangiosarcoma, splenic nodular hyperplasia, and normal spleens of dogs. <i>BMC Veterinary Research</i> , 12(1). <a href="https://doi.org/10.1186/s12917-016-0903-5">https://doi.org/10.1186/s12917-016-0903-5</a>	Auburn University; Smith
01488-A	Hart, B. L., Hart, L. A., Thigpen, A. P., & Willits, N. H. (2016). Neutering of German Shepherd Dogs: associated joint disorders, cancers and urinary incontinence. <i>Veterinary Medicine and Science</i> , 2(3), 191–199. <a href="https://doi.org/10.1002/vms3.34">https://doi.org/10.1002/vms3.34</a>	University of California, Davis; Hart
01445	Hayward, J. J., Castelhana, M. G., Oliveira, K. C., Corey, E., Balkman, C., Baxter, T. L., ... Boyko, A. R. (2016). Complex disease and phenotype mapping in the domestic dog. <i>Nature Communications</i> , 7(1). <a href="https://doi.org/10.1038/ncomms10460">https://doi.org/10.1038/ncomms10460</a>	Cornell University; Simpson
01658	Hokamp, J. A., Cianciolo, R. E., Boggess, M., Lees, G. E., Benali, S. L., Kovarsky, M., & Nabity, M. B. (2016). Correlation of Urine and Serum Biomarkers with Renal Damage and Survival in Dogs with Naturally Occurring Proteinuric Chronic Kidney Disease. <i>Journal of Veterinary Internal Medicine</i> , 30(2), 591–601. <a href="https://doi.org/10.1111/jvim.13832">https://doi.org/10.1111/jvim.13832</a>	Texas A&M AgriLife Research; Nabity
00993-A	Holt, D. E., Brown, D. C., & Henthorn, P. S. (2016). Evaluation of the dynactin 1 gene in Leonbergers and Labrador Retrievers with laryngeal paralysis. <i>American Journal of Veterinary Research</i> , 77(10), 1114–1120. <a href="https://doi.org/10.2460/ajvr.77.10.1114">https://doi.org/10.2460/ajvr.77.10.1114</a>	University of Pennsylvania; Holt
01212-A	Ivansson, E. L., Megquier, K., Kozyrev, S. V., Murén, E., Körberg, I. B., Swofford, R., ... Lindblad-Toh, K. (2016). Variants within the SP110 nuclear body protein modify risk of canine degenerative myelopathy. <i>Proceedings of the National Academy of Sciences</i> , 113(22), E3091–E3100. <a href="https://doi.org/10.1073/pnas.1600084113">https://doi.org/10.1073/pnas.1600084113</a>	University of Missouri, Columbia; Coates
01822	Janowitz Koch, I., Clark, M. M., Thompson, M. J., Deere-Machemer, K. A., Wang, J., Duarte, L., ... vonHoldt, B. M. (2016). The concerted impact of domestication and transposon insertions on methylation patterns between dogs and grey wolves. <i>Molecular Ecology</i> , 25(8), 1838–1855. <a href="https://doi.org/10.1111/mec.13480">https://doi.org/10.1111/mec.13480</a>	University of California, Los Angeles; Wayne
02110-A	Kelly, K. L., Drobatz, K. J., & Foster, J. D. (2016). Effect of Fenoldopam Continuous Infusion on Glomerular Filtration Rate and Fractional Excretion of Sodium in Healthy Dogs. <i>Journal of Veterinary Internal Medicine</i> , 30(5), 1655–1660. <a href="https://doi.org/10.1111/jvim.14522">https://doi.org/10.1111/jvim.14522</a>	University of Pennsylvania; Foster

01557	Kennedy, K., Thomas, R., & Breen, M. (2016). Canine Histiocytic Malignancies—Challenges and Opportunities. <i>Veterinary Sciences</i> , 3(1), 2. <a href="https://doi.org/10.3390/vetsci3010002">https://doi.org/10.3390/vetsci3010002</a>	North Carolina State University; Breen
01975-A	Lim, J.-H., & Olby, N. J. (2016). Generation of pure cultures of autologous Schwann cells by use of biopsy specimens of the dorsal cutaneous branches of the cervical nerves of young adult dogs. <i>American Journal of Veterinary Research</i> , 77(10), 1166–1174. <a href="https://doi.org/10.2460/ajvr.77.10.1166">https://doi.org/10.2460/ajvr.77.10.1166</a>	North Carolina State University; Olby
01660	Lutful Kabir, F. M., Alvarez, C. E., & Bird, R. C. (2015). Canine Mammary Carcinomas: A Comparative Analysis of Altered Gene Expression. <i>Veterinary Sciences</i> , 3(1). <a href="https://doi.org/10.3390/vetsci3010001">https://doi.org/10.3390/vetsci3010001</a>	The Research Institute at Nationwide Children's Hospital; Alvarez
01822	Mariano, R., & vonHoldt, B. (2016). The canine X chromosome is a sink for canine endogenous retrovirus transposition. <i>Gene Reports</i> , 4, 169–176. <a href="https://doi.org/10.1016/j.genrep.2016.05.003">https://doi.org/10.1016/j.genrep.2016.05.003</a>	University of California, Los Angeles; Wayne
01894-A	Mays, S. E., Houston, A. E., & Trout Fryxell, R. T. (2016). Comparison of novel and conventional methods of trapping ixodid ticks in the southeastern U.S.A. <i>Medical and Veterinary Entomology</i> , 30(2), 123–134. <a href="https://doi.org/10.1111/mve.12160">https://doi.org/10.1111/mve.12160</a>	University of Tennessee; Trout-Fryxell
01894-A	Mays, S. E., Houston, A. E., & Trout Fryxell, R. T. (2016). Specifying Pathogen Associations of <i>Amblyomma maculatum</i> (Acari: Ixodidae) in Western Tennessee. <i>Journal of Medical Entomology</i> , 53(2), 435–440. <a href="https://doi.org/10.1093/jme/tjv238">https://doi.org/10.1093/jme/tjv238</a>	University of Tennessee; Trout-Fryxell
01718-A	McConkey, M. J., Valenzano, D. M., Wei, A., Li, T., Thompson, M. S., Mohammed, H. O., ... Krotscheck, U. (2016). Effect of the Proximal Abducting Ulnar Osteotomy on Intra-Articular Pressure Distribution and Contact Mechanics of Congruent and Incongruent Canine Elbows Ex Vivo. <i>Veterinary Surgery</i> , 45(3), 347–355. <a href="https://doi.org/10.1111/vsu.12456">https://doi.org/10.1111/vsu.12456</a>	Cornell University; Krotscheck
02131	Milne, M. E., Steward, C., Firestone, S. M., Long, S. N., O'Brien, T. J., & Moffat, B. A. (2016). Development of representative magnetic resonance imaging–based atlases of the canine brain and evaluation of three methods for atlas-based segmentation. <i>American Journal of Veterinary Research</i> , 77(4), 395–403. <a href="https://doi.org/10.2460/ajvr.77.4.395">https://doi.org/10.2460/ajvr.77.4.395</a>	The University of Melbourne; Long

01985	Pupovac, A., & Sluyter, R. (2016). Roles of extracellular nucleotides and P2 receptors in ectodomain shedding. <i>Cellular and Molecular Life Sciences</i> , 73(22), 4159–4173. <a href="https://doi.org/10.1007/s00018-016-2274-2">https://doi.org/10.1007/s00018-016-2274-2</a>	University of Wollongong; Sluyter
01912-A	Quiñones-Lombraña, A., Cheng, Q., Ferguson, D. C., & Blanco, J. G. (2016). Transcriptional regulation of the canine carbonyl reductase 1 gene ( cbr1 ) by the specificity protein 1 (Sp1). <i>Gene</i> , 592(1), 209–214. <a href="https://doi.org/10.1016/j.gene.2016.08.005">https://doi.org/10.1016/j.gene.2016.08.005</a>	Research Foundation of State University of New York; Blanco
01762	Racette, M., Al saleh, H., Waller, K. R., Bleedorn, J. A., McCabe, R. P., Vanderby, R., ... Muir, P. (2016). 3D FSE Cube and VIPR-aTR 3.0 Tesla magnetic resonance imaging predicts canine cranial cruciate ligament structural properties. <i>The Veterinary Journal</i> , 209, 150–155. <a href="https://doi.org/10.1016/j.tvjl.2015.10.055">https://doi.org/10.1016/j.tvjl.2015.10.055</a>	University of Wisconsin, Madison; Muir
2014 Clinician-Scientist Fellowship Program	Regan, D. P., Escaffi, A., Coy, J., Kurihara, J., & Dow, S. W. (2017). Role of monocyte recruitment in hemangiosarcoma metastasis in dogs: CCL2-recruited monocytes in canine hemangiosarcoma. <i>Veterinary and Comparative Oncology</i> , 15(4), 1309–1322. <a href="https://doi.org/10.1111/vco.12272">https://doi.org/10.1111/vco.12272</a>	Colorado State University; Regan
01421	Riley, M. C., Perreten, V., Bemis, D. A., & Kania, S. A. (2016). Complete Genome Sequences of Three Important Methicillin-Resistant Clinical Isolates of <i>Staphylococcus pseudintermedius</i> . <i>Genome Announcements</i> , 4(5). <a href="https://doi.org/10.1128/genomeA.01194-16">https://doi.org/10.1128/genomeA.01194-16</a>	University of Tennessee; Kania
01843	Roode, S. C., Rotroff, D., Richards, K. L., Moore, P., Motsinger-Reif, A., Okamura, Y., ... Breen, M. (2016). Comprehensive genomic characterization of five canine lymphoid tumor cell lines. <i>BMC Veterinary Research</i> , 12(1). <a href="https://doi.org/10.1186/s12917-016-0836-z">https://doi.org/10.1186/s12917-016-0836-z</a>	North Carolina State University; Breen
02109-MOU	Safra, N., Hitchens, P. L., Maverakis, E., Mitra, A., Korff, C., Johnson, E., ... Bannasch, D. L. (2016). Serum levels of innate immunity cytokines are elevated in dogs with metaphyseal osteopathy (hypertrophic osteodytrophy) during active disease and remission. <i>Veterinary Immunology and Immunopathology</i> , 179, 32–35. <a href="https://doi.org/10.1016/j.vetimm.2016.08.003">https://doi.org/10.1016/j.vetimm.2016.08.003</a>	University of California, Davis; Bannasch
02011	Sanders, K., Mol, J. A., Kooistra, H. S., Slob, A., & Galac, S. (2016). New Insights in the Functional Zonation of the Canine Adrenal Cortex. <i>Journal of Veterinary Internal Medicine</i> , 30(3), 741–750. <a href="https://doi.org/10.1111/jvim.13946">https://doi.org/10.1111/jvim.13946</a>	University of Utrecht; Galac

01889-G	<p>Seelig, D. M., Ito, D., Forster, C. L., Yoon, U. A., Breen, M., Burns, L. J., ... Linden, M. A. (2017). Constitutive activation of alternative nuclear factor kappa B pathway in canine diffuse large B-cell lymphoma contributes to tumor cell survival and is a target of new adjuvant therapies. <i>Leukemia &amp; Lymphoma</i>, 58(7), 1702–1710. <a href="https://doi.org/10.1080/10428194.2016.1260122">https://doi.org/10.1080/10428194.2016.1260122</a></p>	<p>University of Minnesota; Modiano, Broad Institute; Karlsson, North Carolina State University; Breen</p>
02128-A	<p>Stull, J. W., Kasten, J. I., Evason, M. D., Sherding, R. G., Hoet, A. E., O'Quin, J., ... Weese, J. S. (2016). Risk reduction and management strategies to prevent transmission of infectious disease among dogs at dog shows, sporting events, and other canine group settings. <i>Journal of the American Veterinary Medical Association</i>, 249(6), 612–627. <a href="https://doi.org/10.2460/javma.249.6.612">https://doi.org/10.2460/javma.249.6.612</a></p>	<p>The Ohio State University; Stull</p>
01511-A	<p>Taylor, S., Minor, K., Shmon, C. L., Shelton, G. D., Patterson, E. E., &amp; Mickelson, J. R. (2016). Border Collie Collapse: Owner Survey Results and Veterinary Description of Videotaped Episodes. <i>Journal of the American Animal Hospital Association</i>, 52(6), 364–370. <a href="https://doi.org/10.5326/JAAHA-MS-6436">https://doi.org/10.5326/JAAHA-MS-6436</a></p>	<p>University of Minnesota; Mickelson</p>
01903-A	<p>Tuohy, J. L., Lascelles, B. D. X., Griffith, E. H., &amp; Fogle, J. E. (2016). Association of Canine Osteosarcoma and Monocyte Phenotype and Chemotactic Function. <i>Journal of Veterinary Internal Medicine</i>, 30(4), 1167–1178. <a href="https://doi.org/10.1111/jvim.13983">https://doi.org/10.1111/jvim.13983</a></p>	<p>North Carolina State University; Lascelles</p>
01844	<p>Vaden, S. L., &amp; Elliott, J. (2016). Management of Proteinuria in Dogs and Cats with Chronic Kidney Disease. <i>Veterinary Clinics of North America: Small Animal Practice</i>, 46(6), 1115–1130. <a href="https://doi.org/10.1016/j.cvsm.2016.06.009">https://doi.org/10.1016/j.cvsm.2016.06.009</a></p>	<p>North Carolina State University; Vaden</p>
00799-A	<p>Vida, B., Toepp, A., Schaut, R. G., Esch, K. J., Juelsgaard, R., Shimak, R. M., &amp; Petersen, C. A. (2016). Immunologic progression of canine leishmaniosis following vertical transmission in United States dogs. <i>Veterinary Immunology and Immunopathology</i>, 169, 34–38. <a href="https://doi.org/10.1016/j.vetimm.2015.11.008">https://doi.org/10.1016/j.vetimm.2015.11.008</a></p>	<p>Iowa State University; Petersen</p>
01982	<p>Visser, L. C., Im, M. K., Johnson, L. R., &amp; Stern, J. A. (2016). Diagnostic Value of Right Pulmonary Artery Distensibility Index in Dogs with Pulmonary Hypertension: Comparison with Doppler Echocardiographic Estimates of Pulmonary Arterial Pressure. <i>Journal of Veterinary Internal Medicine</i>, 30(2), 543–552. <a href="https://doi.org/10.1111/jvim.13911">https://doi.org/10.1111/jvim.13911</a></p>	<p>University of California, Davis; Stern</p>
02133	<p>Vuu, I., Coles, L. D., Maglalang, P., Leppik, I. E., Worrell, G., Crepeau, D., ... Patterson, E. E. (2016). Intravenous Topiramate: Pharmacokinetics in Dogs with Naturally Occurring Epilepsy. <i>Frontiers in Veterinary Science</i>, 3. <a href="https://doi.org/10.3389/fvets.2016.00107">https://doi.org/10.3389/fvets.2016.00107</a></p>	<p>University of Minnesota; Patterson</p>

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Zapata, I., Serpell, J. A., & Alvarez, C. E. (2016). Genetic mapping of canine fear and aggression. *BMC Genomics*, 17(1).  
<https://doi.org/10.1186/s12864-016-2936-3>

The Research Institute at  
Nationwide Children's  
Hospital; Alvarez